

Attorney Docket No. Intel-010PUS

United States Patent Application COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: <u>A METHOD AND APPARATUS UTILIZING NON-UNIFORMLY</u>

<u>DISTRIBUTED DRAM CONFIGURATIONS AND TO DETECT IN-RANGE MEMORY ADDRESS</u>

<u>MATCHES</u>.

The specification of which was filed on <u>December 30, 2003</u> as application serial no. <u>10/751263</u>.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. § 1.56 (attached hereto). I also acknowledge my duty to disclose all information known to be material to patentability which became available between a filing date of a prior application and the national or PCT international filing date in the event this is a Continuation-In-Part application in accordance with 37 C.F.R. § 1.63(e).

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

No such claim for priority is being made at this time.

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

No such claim for priority is being made at this time.

I hereby claim the benefit under 35 U.S.C. § 120 or 365(c) of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. § 1.56(a) which became available between the filing date of the prior application and the national or PCT international filing date of this application:

No such claim for priority is being made at this time.

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

Attorney Docket No.: Intel-010PUS Serial No. 10/751263 Filing Date: December 30, 2003

Page 2 of 4

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Aldous, Alan	Reg. No. 31,905	Hope, Libby	Reg. No. 46,774	Scott, Russell	Reg. No. 43,103
Anderson, Rob A.	Reg. No. 33,826	Huter, Jeffrey B.	Reg. No. 41,086	Seddon, Ken	Reg. No. 43,105
Bacon, Shireen	Reg. No. 40,494	Jordon, B. D.	Reg. No. 43,698	Seeley, Mark	Reg. No. 32,299
Barre, Michael	Reg. No. 44,023	Kalson, Seth	Reg. No. 40,670	Shah, Ami P.	Reg. No. 42,143
Beale, Jay P.	Reg. No. 50,901	Lam, Peter	Reg. No. 44,855	Simon, David	Reg. No. 32,756
Brake, Edward	Reg. No. 37,784	Lin, Issac	Reg. No. 50,672	Skabrat, Steve	Reg. No. 36,279
Burge, Ben	Reg. No. 42,372	Martinez, Anthony	Reg. No. 44,223	Steiner, Paul E.	Reg. No. 41,326
Chen, George	Reg. No. 50,807	McCall, Molly	Reg. No. 46,126	Stutman-Horn, Joni	Reg. No. 42,173
Choi, Glen	Reg. No. 43,546	Mennemeier, Larry	Reg. No. 51,003	Tran, David	Reg. No. 50,804
Cool, Kenneth J.	Reg. No. 40,570	Nagy, Paul	Reg. No. 37,896	Travis, John F.	Reg. No. 43,203
Crawford, Ted A.	Reg. No. 50,610	Nesheiwat, Michael J.	Reg. No. 47,819	Tweet, Kerry D.	Reg. No. 45,959
Diehl, Robert	Reg. No. 40,992	Nicholls, Dennis A.	Reg. No. 42,036	Wells, Calvin	Reg. No. 43,256
Draeger, Jeffrey S.	Reg. No. 41,000	Parker, Lanny	Reg. No. 44,281	Whittington, Stuart	Reg. No. 45,215
Faatz, Cindy	Reg. No. 39,973	Pedersen-Giles, Alan	Reg. No. 39,996	Willardson, Michael	Reg. No. 50,856
Gagne, Christopher	Reg. No. 36,142	Plimier, Michael D.	Reg. No. 43,004	Winkle, Robert G.	Reg. No. 37,474
Green, Sharmini N.	Reg. No. 41,410	Proksch, Michael	Reg. No. 43,021	Wisor, Rita	Reg. No. 41,382
Greenberg, Robert A.	Reg. No. 44,133	Reif, Kevin A.	Reg. No. 36,381	Wong, Sharon	Reg. No. 37,760
Greenwald, Bradley A.	Reg. No. 34,341	Sayles, Crystal D.	Reg. No. 44,318	Yates, Steven D.	Reg. No. 42,242
Daly, Christopher	Reg. No. 37,303	Durkee, Paul	Reg. No. 41,003	Robinson, Kermit H.	Reg. No. 48734
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I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Daly, Crowley & Mofford, LLP to the contrary.

Please direct all correspondence in this case to Daly, Crowley & Mofford, LLP at the address indicated below:

c/o PortfolioIP P.O. Box 52050, Minneapolis, MN 55402 Telephone No. 781-401-9988

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Joint inventor numbe	r 1: <u>Chen-Chi Kuo</u>				_
Citizenship:	Taiwan, R.O.C.	. 1	Residence: Pleas	anton, CA	•
Post Office Address:	5184 Independence St.				
Signature:	Pleasanton, CA 94666	>	Date:	5/26(200 Y
. Chen-C	hi Kuo				

X Additional inventors are being named on separately numbered sheets, attached hereto.

Full Name of joint inventor number 2: Sridhar Lakshmanamurthy Citizenship: United States of America Cost Office Address: 1614 Grosbeak Avenue Sunnyvale, CA 94087 Signature: Date: Sridhar Lakshmanamurthy Full Name of joint inventor number 3: Rohit Natarajan Citizenship: India Post Office Address: 1516 Emperor Way Sunnyvale, CA 94087 Date: 05/26/04	attorney Docket No.: Intel-010PUS erial No. 10/751263 illing Date: December 30, 2003		*	rage.
Full Name of joint inventor number 3: Robit Natarajan Citizenship: India Post Office Address: 1516 Emperor Way Sunnyule, CA 94087 Signature: Robit Natarajan Full Name of joint inventor number 4: Kin-Yip Lin Citizenship: United States of America A57 Mill Niver Lane San Jose, CA 95134 Signature: Signature: Date: 5: Prashant R. Chandra Citizenship: India Titizenship: Indi		1614 Grosbeak Avenue	Y Residence: Sunnyvale, CA	
Full Name of joint inventor number 3: Rohit Natarajan Citizenship: India Post Office Address: 1516 Emperor Way Sunnyvale, CA 94087 Signature:			Date:	
Citizenship: India Residence: Sunnyvale, CA	Signature:Sridh	ar Lakshmanamurthy		
Post Office Address: 1516 Emperor Way Sunnyvale, CA 94087 Rohit Natarajan	Full Name of joint inventor num		Residence: Sunnvvale, CA	
Full Name of joint inventor number 4: Kin-Yip Liu Citizenship: United States of America 457 Mill River Lane San Jose, CA 95134 Signature: Kin-Yip Liu Full Name of joint inventor number 5: Prashant R. Chandra Citizenship: India 777 S. Mathilda Avenue, Apt. 292 Sumyvale, CA 94087 Signature: Prashant R. Chandra Full Name of joint inventor number 6: James D. Guilford Citizenship: Prashant R. Chandra Full Name of joint inventor number 6: James D. Guilford Citizenship: United States of America 17 Mashpee Citcle Northborough, MA 01532 Signature: Date: D	Citizenship:	India 1516 Emperor Way		
Citizenship:	Signature:Rohi	t Natarajan	Date:	
Citizenship: India 777 S. Mathilda Avenue, Apt. 292 Sumyvale, CA 94087 Signature: Prashant R. Chandra Full Name of joint inventor number 6: James D. Gullford Citizenship: United States of America Post Office Address: 17 Mashpee Circle Northborough, MA 01532 Signature: Date:	Citizenship: Post Office Address: Signature:	457 Mill River Lane San Jose, CA 95134		
Full Name of joint inventor number 6: James D. Gullford Citizenship: United States of America Post Office Address: 17 Mashpee Circle Northborough, MA 01532 Signature: Date:	Citizenship:	India 777 S. Mathilda Avenue, Apt. 292	Residence: Sunnyvale, CA	
Citizenship: Post Office Address: United States of America 17 Mashpee Circle Northborough, MA 01532 Signature: Date:	Signature:Pra	1 Kale tille	Date: 5 26 04	
Signature:	Citizenship:	United States of America 17 Mashpee Circle	Residence: Northborough, MA	
	Signature:Ja		Date:	

Attorney Docket No.: Intel-010PUS Serial No. 10/751263

Filing Date: December 30, 2003

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§ 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of any claim canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by a 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
 - (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application:
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.



Attorney Docket No. Intel-010PUS

United States Patent Application COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: A METHOD AND APPARATUS UTILIZING NON-UNIFORMLY DISTRIBUTED DRAM CONFIGURATIONS AND TO DETECT IN-RANGE MEMORY ADDRESS MATCHES.

The specification of which was filed on <u>December 30, 2003</u> as application serial no. <u>10/751263</u>.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. § 1.56 (attached hereto). I also acknowledge my duty to disclose all information known to be material to patentability which became available between a filing date of a prior application and the national or PCT international filing date in the event this is a Continuation-In-Part application in accordance with 37 C.F.R. § 1.63(c).

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

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1 hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

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I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

ling Date: December 30, 200	OPUS				Page 2 of
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		Nope, Libby	Reg. No. 46,774	Scott, Russell	Reg. No. 43,103 Reg. No. 43,103
Idous, Alan	Reg, No. 31,905	Huter, Jeffrey B.	Reg. No. 41 086	Seddon, Ken	Reg. No. 32,29
inderson, Rob A.	Reg. No. 33,826	Jordon, B. D.	Reg. No. 43,698	Scoley, Mark	Reg. No. 42,14
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Draeger, Jeffrey S.	Reg. No. 19,973	Pedersen Giles, Alun	Reg No 39,996	Willardson, Michael Winkle, Robert G.	Reg. No. 37,4
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Circert, Sharrinn N.	Reg. No. 44,133	Reif, Kevin A.	Reg. No. 36,381	Wong, Sharon Yates, Steven D.	Reg. No. 42,2
Greenberg, Robert A.	Reg. No. 34,341	Sayles, Crystal D.	Rug. No. 44,318	Robinson, Kermit II.	Reg. No. 4873
Greenwald, Brodley A. Daly, Christopher	Reg. No. 37,303	Durkee, Paul	Reg No. 41,003	Roomson, Remarks	. •
Please direct	all correspondence in	ted unless/until I instruct I this case to Daly, Crowley c/o PortfolioIP P.O. Box 52050, Mir	nneapolis, MN 55402	(iid attailed iii.	
		Telephone No. 781-	401-9988		
	lare that all statements	made herein of my own k	nowledge are true and	that all statements made one that willful false statem	on information an
belief are believed to	be frue; and further the by fine or imprisonme rdize the validity of th ventor number 1: Taiwan, 5184 Inc.	at these statements were in the party of hoth, under Section is application or any patent Chen-Chi Kuo R.O.C. dependence St. on, CA 94566	1001 of Title 18 of the Lissued thereon. Residence: Plea	United States Code and t	hat such willful fa
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 \underline{X} Additional inventors are being named on separately numbered sheets, attached hereto.

attorney Dacket No.: Intel-010PUS erial No. 10/751263 Filing Date: December 30, 2003			- Fuke 3 G
Full Name of joint inventor number 2: Citizenship: Unit	Sridbar Lakshmanamurthy ed States of America Grosbeak Avenue nyvale, CA 94087	Residence: Sunnyvale, CA	
h la col	al	Date: 65-27-2004	
Signature: Sridhar Taks	hmanamurthy		
Full Name of joint inventor number 3 Citizenship: Ind Post Office Address: 151 Sun	: <u>Robit Natarajan</u> ia 6 Emperor Way nyvale, CA 94087	Residence: Sunnyvale, CA	
		Date:	-
Signature: Robit Natar	rajan		
Unit Office Address: 45	: <u>Kin-Yip Llu</u> lited States of America 7 Mill River Lane n Jose, CA 95134	Residence: San Jose, CA	
Signature: Kin-Yip L	iu	Date:	
Full Name of joint inventor number Citizenship:	1013	Residence: Sunnyvale, CA	
David Office Address:	77 S. Mathilda Avenue, Apt. 292 mnyvale, CA 94087		
	,	Date:	
Signature: Prashant	R. Chandra		
Danie Office Arbbrees	6: James D. Guilford United States of America 7 Mashpee Circle Northborough, MA 01532	Residence: Northborough, MA	-
, г	managed	Date:	
Signature:James D	. Guilford		
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Attorney Docket No.: Intel-010PUS Serial No. 107/51263 Filing Date: December 30, 2003

Page 4 of 4

§ 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
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 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.



Attorney Docket No. Intel-010PUS

United States Patent Application combined declaration and power of attorney

As a below named inventor I hereby declare that: my residence, post office address and citizenship are as

I verily believe I am the original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: A METHOD AND APPARATUS UTILIZING NON-UNIFORMLY DISTRIBUTED DRAM CONFIGURATIONS AND TO DETECT IN-RANGE MEMORY ADDRESS MATCHES.

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I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/organization/who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Daly, Crowley & Mofford, LLP to the contrary.

Please direct all correspondence in this case to Daly, Crowley & Mofford, LLP at the address indicated below: c/o PortfolioIP

C/O POPUGIOLF P.O. Box 52050, Minneapolis, MN 55402 Telephone No. 781-401-9988

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Signature:	Chen-Chi Kuo	Date:

 \underline{X} Additional inventors are being named on separately numbered sheets, attached hereto.

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Attorney Docket No.: Intel-010PUS Serial No. 10/751263		
Filing Date: December 30, 2003 Full Name of joint inventor number Citizenship: Post Office Address:	er 2: <u>Sridhar Lakshmanamurthy</u> United States of America 1614 Grosbeak Avenue Sunnyvale, CA 94087	Residence: Sunny varo, Cri
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Jan	mes D. Guilford	

Attorney Docket No.: Intel-010PUS Serial No. 10/751263

Filing Date: December 30, 2003

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§ 1.56 Duty to disclose information material to patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of any claim canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known existing claim. The duty to disclose all information known to be material to patentability of the Office in the manner prescribed by to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
 - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
 - (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
 - (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
 - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
 - (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
 - (1) Each inventor named in the application;
 - (2) Each attorney or agent who prepares or prosecutes the application; and
 - (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.